



REPLACEMENT
SHEET

```
1      SUBROUTINE SUB(A,N)
2      INTEGER N
3      REAL A(ABS(N))
4      WRITE(*,*) A
5      END SUBROUTINE
```

FIG. 1A PRIOR ART

```
1      SUBROUTINE SUB(A,N)
2      INTEGER N
3      IF (N.GE.0) THEN      ! EXPANSION CODE
4          TMP = N           ! EXPANSION CODE
5      ELSE                  ! EXPANSION CODE
6          TMP = -N           ! EXPANSION CODE
7      END IF                 ! EXPANSION CODE
8      REAL A(TMP)
9      WRITE(*,*) A
10     END SUBROUTINE
```

FIG. 1B PRIOR ART



```
-----  
1 char *copy_string(char *s)  
2 {  
3     int i;  
4     char *buffer = (char*)malloc(strlen(s) + 1);  
5  
6     for (i = 0; s[i] != '\0'; ++i)  
7         buffer[i] = s[i];  
8  
9     return buffer;  
10 }  
-----
```

FIG. 2A
PRIOR ART

```
-----  
1 char *copy_string(char *s)  
2 {  
3     int i;  
4     char *p; /* EXPANSION CODE */  
5     int tmp; /* EXPANSION CODE */  
6     tmp = 0; /* EXPANSION CODE */  
7     for (p = s; *p != '\0'; ++p) /* EXPANSION CODE */  
8         ++tmp; /* EXPANSION CODE */  
9     char *buffer = (char*)malloc(tmp + 1);  
10 }  
-----
```

FIG. 2B
PRIOR ART



```
1 IF (Z.GT.EPS) THEN
2   A=B1
3 ELSE IF(ABS(Z).LE.EPS) THEN
4   A=B2
5 ELSE
6   A=B3
7 END IF
```

FIG. 3A
PRIOR ART

```
1 IF (Z.GT.EPS) THEN
2   A=B1
3a ELSE
4   IF (Z.GE.0.0) THEN      ! EXPANSION CODE
5     TMP = Z               ! EXPANSION CODE
6   ELSE
7     TMP = -Z              ! EXPANSION CODE
8   END IF                  ! EXPANSION CODE
9   IF(TMP.LE.EPS) THEN
10    A=B2
11  ELSE
12    A=B3
13c END IF
14 END IF
```

FIG. 3B
PRIOR ART